

# ABSTRACT

A work conveying system and a traveling path sealing structure in the work conveying system are disclosed which can effectively prevent the leakage of dust into a clean room which dust is generated from a drive portion and a slide portion in a traveling path of the work conveying system using guide rails.

In a work conveying system including at least a work <sup>holder</sup> holding means for holding a work and a horizontal <sup>mover</sup> moving means for moving the work <sup>holder</sup> holding means horizontally in an upper ceiling space within a clean room, the work being conveyed to each of plural processing

apparatuses while circulating among the processing

apparatuses, <sup>including mover</sup> the horizontal moving means has at least one linear moving mechanism, the linear moving mechanism

comprising a traveling path covered with a duct <sup>with in</sup> and having

<sup>internal</sup> a guide portion in the interior thereof, a traveling body <sup>66</sup>

adapted to <sup>ing</sup> engage the guide portion and travel <sup>ing</sup> through an interior space of the traveling path, <sup>designed by the duct</sup> and a slider

connected to the traveling body <sup>50r</sup> and adapted to travel

together with the traveling body <sup>on</sup> in the exterior of the traveling path, the work holding means or another linear

moving mechanism being <sup>is</sup> attached to the slider, <sup>Air cleaners</sup> and cleaning <sup>110</sup>

means are disposed at suitable intervals in the traveling

path to clean the air <sup>therein</sup> present within the traveling path and <sup>125</sup>

to  
✓ discharge the cleaned air to the exterior. [In the interior]  
[of] the traveling path [are] accommodated a drive source, a  
drive mechanism, and a power supply, [means, which are for]  
[the traveling body, at least the drive source being  
integral with the traveling body.

A deformable sealing means may be provided in an elongated  
gap portion in which a connecting member for connecting the  
slider to the traveling body extends through the duct, the  
sealing means covering the elongated gap portion without  
obstructing the travel of the connecting member.